## WHAT IS CLAIMED IS:

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13.

An isolated nucleic acid encoding an IC-RFX polypeptide at least 70% 1. 1 2 identical to SEO ID NO:2. The nucleic acid of claim 1, wherein the nucleic acid encodes SEQ ID 1 2. . 2 NO:2. The nucleic acid of claim 1, wherein the nucleic acid comprises SEQ 1 3. 2 ID NO:1. 4. An isolated nucleic acid encoding a polypeptide comprising in the 1 2 following order: a proline/glutamine rich domain, an RFX DNA binding domain (SEQ ID NO:4), an RFX B domain (SEQ ID NO:5), an RFX C domain (SEQ ID NO:6), a dimerization 3 domain (SEQ ID NO:7) and a serine/threonine domain. 4 5. An expression cassette comprising a promoter operably linked to the 1 2 nucleic acid of claim 1. 1 6. An isolated nucleic acid that specifically hybridizes following at least 2 one wash in 0.2X SSC at 55° C for 20 minutes to a probe comprising SEQ ID NO:1. An isolated IC-RFX polypeptide comprising an amino acid sequence at 1 7. least 70% identical to SEQ ID NO:2. 2 The polypeptide of claim 7, wherein the polypeptide comprises SEQ 1 8. 2 ID NO:2. The polypeptide of claim 7, wherein the polypeptide specifically binds 1 9. 2 to antibodies generated against SEQ ID NO:2. An antibody that specifically binds to SEQ ID NO:2. 1 10. 1 A host cell transfected with the nucleic acid of claim 1. 11. 1 12. The host cell of claim 11, wherein the cell is a pancreatic islet cell.

The host cell of claim 12, wherein the cell is an islet  $\beta$ -cell.

l	14. A method of diagnosing a subject with diabetes or a susceptibility for	r			
2	diabetes, the method comprising				
3	detecting in a sample from the subject a polynucleotide that hybridizes to a				
1	probe comprising SEQ ID NO:1 following at least one wash in 0.2X SSC at 55° C for 20				
5	minutes.				
1	15. The method of claim 14, wherein the polynucleotide is detected by				
2	hybridization.				
1	16. The method of claim 14, wherein the polynucleotide is detected by				
2	amplification of the polynucleotide.				
1	17. The method of claim 14, wherein the nucleotide sequence of the				
2	polynucleotide is determined.				
1	18. A method of diagnosing diabetes or a predisposition for diabetes in a	3			
2	subject, the method comprising,				
3	detecting the level of an IC-RFX polypeptide or transcript encoding the IC-				
4	RFX polypeptide in a sample from the subject, wherein a modulated level of the polypeptide				
5	or transcript in the sample compared to a level of the polypeptide or transcript in a non-				
6	diabetic individual indicates that the subject is diabetic or is predisposed for at least some				
7	pathological aspects of diabetes, and wherein the IC-RFX polypeptide is at least 70%				
8	identical to SEQ ID NO:2.				
1	19. The method of claim 18, wherein the polypeptide comprises SEQ II	)			
2	NO:2.				
1	20. The method of claim 18, wherein the polypeptide is detected by an				
2	antibody.				
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1	21. A method for identifying an agent for treating a diabetic or pre-diab	etic			
2	individual, the method comprising the steps of:				
3	(i) contacting an agent to a mixture comprising an IC-RFX polypeptide	at			
4	least 70% identical to SEQ ID NO:2; and				
5	(ii) selecting an agent that modulates the expression or activity of the				
6	polypeptide or that binds to the polypeptide.				

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1		22.	The method of claim 21, the method further comprising selecting an			
2	agent that modulates insulin expression of a cell.					
1		23.	The method of claim 21, wherein step (ii) comprises selecting an agent			
2	that modulates expression of the polypeptide.					
1		24.	The method of claim 21, wherein step (ii) comprises selecting an agent			
2	that modulates the activity of the polypeptide.					
1		25.	The method of claim 21, wherein step (ii) comprises selecting an agent			
2	that specifically binds to the polypeptide.					
1		26.	The method of claim 21, wherein the polypeptide is expressed in a cell			
2	and the cell is contacted with the agent.					
1		27.	The method of claim 21, wherein the polypeptide is SEQ ID NO:2.			
1		28.	A method of treating a diabetic or pre-diabetic animal, the method			
2	comprising administering to the animal a therapeutically effective amount of an agent					
3	identified by the method of claim 21.					
1		29.	The method of claim 28, wherein the agent is an antibody.			
1		30.	The method of claim 29, wherein the antibody is a monoclonal			
2	antibody.					
1		31.	The method of claim 28, wherein the animal is a human.			
1		32.	A method of introducing an expression cassette into a cell, the method			
2	comprising,					
3			ducing into the cell an expression cassette comprising a promoter			
4	operably linked to a polynucleotide encoding an IC-RFX polypeptide at least 70% identical					
5	to SEQ ID NO:2.					
1		33.	The method of claim 32, wherein the polypeptide comprises SEQ ID			

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NO:2.

1		34.	The method of claim 32, wherein the polynucleotide comprises SEQ			
2	ID NO:1.					
1		35.	The method of claim 32, the method further comprising introducing			
2	the cell into a human.					
1		36.	The method of claim 35, wherein the human is diabetic.			
1		37.	The method of claim 35, wherein the human is prediabetic.			
1		38.	The method of claim 35, wherein the cell is from the human.			
1		39.	The method of claim 32, wherein the cell is a pancreatic islet cell.			
1		40.	The method of claim 32, wherein the cell is an islet $\beta$ -cell.			